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stars, promise valuable returns from this co-operative undertaking. Professor KAPTEYN will commence work on Mt. Wilson as soon as the 60-inch reflector is ready for use, probably in the summer of 1908.

Dr. ARTHUR L. KING, of the University of California, will take charge of the physical laboratory of the Solar Observatory as soon as he can relinquish the duties of his present position, probably in January, 1908. It is proposed to undertake an extensive investigation of anomalous-dispersion phenomena, and the effects of temperature and pressure, for lines which will also be studied in sun-spots, at the center and limb of the Sun, in the chromosphere, and in stars of various types. Dr. KING will be assisted in the laboratory by Dr. OLMSTED, who has been engaged in similar work at Mt. Wilson during the past year.

GEORGE E. HALE.

September, 1907.

REQUEST FOR UNPUBLISHED OBSERVATIONS OF THE VARIABLE STAR *U GEMINORUM*.

Mr. J. VAN DER BILT, Astronomer at the observatory, Utrecht, Holland, has undertaken the definitive reduction of all available observations of this remarkable variable, and would be very glad to have copies of any unpublished observations, in such detail that they can be reduced by a normal photometric light-scale. They may be sent to him direct. Address Maliesingel 58, Utrecht; or if sent to the undersigned, they will be transmitted to him.

J. A. PARKHURST.

YERKES OBSERVATORY,
WILLIAMS BAY, WISCONSIN.

CHANGES IN THE STAFF OF LICK OBSERVATORY.

Mr. KEIVIN BURNS, Carnegie Assistant during the past four years, with duties in the measurement and reduction of stellar spectrograms, resigned, to take effect October 1st, in order to pursue postgraduate studies.

Dr. B. L. NEWKIRK, Carnegie Assistant during the past year, resigned, to take effect September 1st, to accept appointment as Assistant Professor of Mathematics and Mechanics in the College of Engineering, University of Minnesota.

HENRY C. PLUMMER, M. A., Assistant in the University of Oxford during the past six years, has been appointed a Fellow in the Lick Observatory. His time will be devoted to work in the spectroscopic department.

Miss LEAH ALLEN, of Brown University, Providence, Rhode Island, has been appointed Carnegie Assistant with duties in the measurement and reduction of spectrograms.

MT. HAMILTON, September 23, 1907. W. W. CAMPBELL.

EPHEMERIDES FOR THE WATSON ASTEROIDS.

In accordance with the intention expressed in *Lick Observatory Bulletin* No. 114, to provide regularly ephemerides for coming oppositions of the various asteroids discovered by WATSON, as far as the progress made in determining their elements and first order perturbations by *Jupiter* may permit, ephemerides were computed by Miss GLANCY from the elements and perturbations derived under my direction in the Berkeley Astronomical Department, for the recent oppositions of (103) *Hera* and (179) *Klytæmnestra*. Unfortunately, these ephemerides were not completed in time for publication in a *Lick Observatory Bulletin*. A photographic position of *Hera* was secured, however, by Miss GLANCY, at this observatory on June 14th, and requests for observations of (179) were sent to Director CAMPBELL, of the Lick Observatory, and to Admiral WALKER, Superintendent of the United States Naval Observatory.

At the Lick Observatory three observations were secured by Mr. DUNCAN, on September 18th, 19th, and 20th, and Professor EICHELBERGER, of the Naval Observatory, has communicated to me a correction to the ephemeris of (179), based on an observation by Mr. HAMMOND, taken September 23d. In each case the ephemerides were given to 1^s and $0'.1$. The agreement between theory and observation is far better than was expected. The correction to the ephemeris of (103) on June 14th, is $+0^s.6$ and $-0'.3$. The correction to the ephemeris of (179), communicated by Professor EICHELBERGER for September 23d, is $+2^s$ and $-0'.1$. The mean correction, however, to the ephemeris of (179) from the Lick observations, September 19th, is 0^s and $-0'.1$.

The last opposition upon which the elements of (179) are based occurred eight years ago. A. O. LEUSCHNER.

BERKELEY ASTRONOMICAL DEPARTMENT, Oct. 2, 1907.